

City of Santa Clara Building Inspection Division

1500 Warburton Avenue Santa Clara, CA 95050 Phone: (408) 615-2440

Fax: (408) 241-3823 http://www.ci.santa-clara.ca.us

WATER HEATER REQUIREMENTS

CITY OF SANTA CLARA

Inspection Division 1500 Warburton Avenue Santa Clara, CA 95050 Division Phone: (408) 615-2440

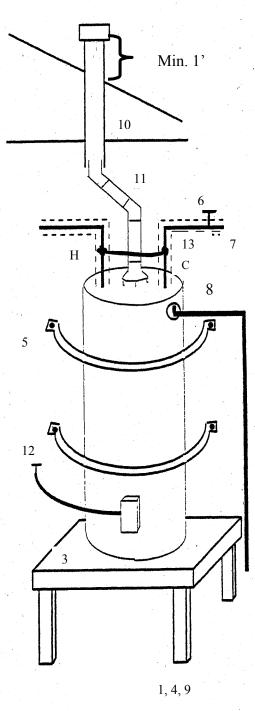
Permit Center: (408) 615-2420

Automated Inspection System: (408) 615-2400

Fax: (408) 241-3823

GAS WATER HEATER REQUIREMENTS

Location Access	Prohibited in bathroom or bedroom.
and working space	Working space at firebox 30x30 inches.
(510, 511)	Attic Location: Permanent ladder or stairs required. 24-
	inch walkway required. 30-inch access door. Water
	heater must be within 20 feet of access door.
	Exterior location: Heaters must be protected from the
	elements by enclosure in a water heater room.
	Heater must be accessible from a door min. 24 inch wide.
2. Protection	Protection when subject to path of vehicle (510).
3. 18-inch stand	Required when water heater is installed in a garage (510).
4. Corrosion	Required for installation in attic. Corrosion resistant ³ / ₄ -
resistant pan (Smitty	inch drain line required to approved location: branch
Pan)	tailpiece, exterior location, floor sink, floor mounted mop
	sink. T&P line may NOT drain to smitty pan (510).
5. Earthquake Straps	Required at upper and lower third of heater. Maintain 4-
	inch clearance above water heater controls. Approved
	listed strapping system or equal (510).
6. Shutoff Valve	A shutoff valve is required on the cold water supply (605).
7. Pipe Insulation	Pipe insulation is required on first 5 feet of hot and cold
7. Tip v mountain	water pipe (2001 Residential Energy Efficiency Stds.
	Sec. 2.6.3).
8. T & P line	A temperature and pressure relief valve is required. ³ / ₄
0. 1 00 1 11110	drain line must run with fall to approved locations:
	exterior of building, deep floor sink, floor mounted mop
	sink. T & P must terminate between 6 and 24 inches of
	surface. A Watts 210 valve may be used where drain line
	cannot extend to the exterior. A pressure relief valve
	must be installed on the system in conjunction with the
	watts 210 valve (608).
9. Combustion Air	Where located in a confined space (less than 50 cubic feet
	of area for each 1000 BTU input rating of Water heater) a
	high and low combustion air opening must be provided
	within 12 inches of the top and bottom of the enclosure.
	Min. size 10 x 10 per opening (507).
10. Vent	A double wall (type B) vent must be provided with a min.
	1 inch to combustibles. Min. 5 feet vertical required
	between vent collar and vent cap. Vent may have offsets
	of up to 45 degrees and one offset of up to 60 degrees.
	Vent must terminate in a listed vent cap (517 and vent
	listings). Vent stack minimum 5'.
11. Vent connector	Single wall vent connector allowed to connect water
	heater to its vent. Vent connector must be exposed and
	cannot run into or through concealed construction.
	Minimum accessible 6-inch clearance to combustibles.
12 0 0	Min. pitch ¼ inch per foot (516).
12. Gas Connector	Accessible control valve with max. 3 foot flex connector
10 P "	required (1212). Connector must not be consealed.
13. Bonding	Bond Hot and Cold water lines.
	(1999 Nat. Electric Code Sec 250-104(a))



NOTE: () indicates Uniform Plumbing Code Section, unless otherwise noted.